

## LIMITED ONE YEAR WARRANTY

*BK Precision* warrants to the original purchaser that its product, and the component parts thereof, will be free from defects in workmanship and materials for a period of one year from the date of purchase.

*BK Precision* will, without charge, repair or replace, at its option, defective product or component parts upon delivery to an authorized *BK Precision* service contractor or to the factory service department, accompanied by proof of the purchase date in the form of a sales receipt.

**Exclusions:** This warranty does not apply in the event of misuse or abuse of product or as a result of unauthorized alterations or repairs. It is void if the serial number is altered, defaced or removed.

*BK Precision* shall not be liable for any consequential damages, including without limitation damages resulting from loss of use. Some states do not allow limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific rights and you may have other rights which vary from state-to-state.

For your convenience, we suggest you contact your *BK Precision* distributor, who may be authorized to make repairs or can refer you to the nearest service contractor. If warranty service cannot be obtained locally, please send the unit to *BK Precision* Service Center, 1031 Segovia Circle, Placentia, CA 92870, properly packaged to avoid damage in shipment.

*BK Precision* Test Instruments only warrants products sold in the U.S.A and its overseas territories. In other countries, each distributor warrants the *BK Precision* products which it sells.

**BK PRECISION®**

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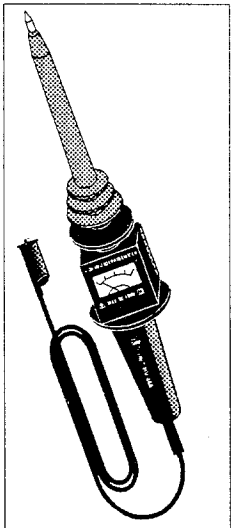
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## INSTRUCTION MANUAL

**BK PRECISION®**

**HIGH VOLTAGE PROBE  
MODEL HV-44A**



### SAFETY

These steps outline the minimum, basic safety precautions that must be followed when using this high voltage probe.

Before you use this instrument, read and thoroughly understand this information. You must have a thorough understanding of the hazards that may occur when working with high voltages and when using this probe. Failure to follow good safety practices could cause you serious personal harm, even death. Remember, high voltage kills! If safety precautions are not followed:

1. Examine probe, make sure it is clean and dry. Dirt, moisture and grease can provide a creep path for voltage. If in doubt, wipe with a clean, dry, lint-free cloth.
2. Look at the condition of the floor in the test area. It must be dry, clean and free of oil. Never stand on a wet or damp floor.
3. Always connect the alligator clip of this probe to earth ground before taking any measurements.

## SAFETY (cont.)

4. Examine the entry to your high voltage test point. Make sure that you are able to bring the probe in to the test point. Also, make sure the tip is clear of wires, metal supports and other nearby conductive surfaces.
5. Only use this probe to measure positive polarity dc voltages. Never try to measure negative polarity dc voltages or ac voltages.
6. Verify that you are able to remain clear and avoid contact with any exposed metal and/or other conductive parts of the device being checked.
7. Only use one hand to hold the handle of the probe. Keep your free hand behind you, preferably in your hip pocket. This position helps avoid a situation where the voltage could flow across your chest should a mishap occur. Current flow across your chest is very damaging as it disturbs the rhythm of the heart.
8. Always work within sight and hearing of another person. If an accident occurs, you will be able to get aid quickly.
9. In addition to these safety instructions, follow those given by the manufacturer of the device being checked.
10. When handling a CRT, avoid touching the conductive coating before it's discharged. Remember, it can hold a dangerous charge long after the set is turned off.

## SPECIFICATIONS

Voltage Range:	0 to +40 kV dc.
Input Impedance:	600 megohms, nominal.
Accuracy:	±3% of full scale.
Calibration:	Internal, factory calibrated at 25 kV.
Size:	16-1/2" x 2-1/8 x 2" w/34" Lg. cord (41.9 x 5.4 x 5.1 cm w/86.4 cm Lg. cord)
Probe Tips:	Two interchangeable tips: one round needle type, one special flat spring type for easy access to CRT anode.

## DESCRIPTION

This probe is a self-contained instrument; it measures positive polarity dc high voltages up to 40 kV. It consists of two interchangeable screw-in contact tips, a direct-reading meter, ground clip and high-impact ABS case. This case has excellent insulating properties, light weight and is resistant to damage.

One tip is a round needle type for general use, the other is a special flat spring type for easy access to a CRT anode. An alligator type clip lead provides a secure earth ground connection.

A rugged, core magnet-type meter is supplied. It is reasonably free from the effects of outside magnetic fields and can withstand moderate shock and vibration without damage.

The probe was factory calibrated at 25 kV. Under normal conditions, it should not require periodic calibration.

This probe is typically used to measure high voltages in TV sets, power supplies, laboratories and for general high voltage commercial applications.

## OPERATION

### WARNING

*Before taking any measurements, first connect the alligator clip of this probe to earth ground and make sure connection is electrically good.*

1. Examine probe, make sure it is clean and dry. Dirt, moisture and grease can provide a creep path for voltage. If in doubt, wipe with a clean, dry, lint-free cloth.
2. Make sure appropriate tip is installed in probe for measurement. Use round needle tip for general applications, flat tip for CRT's; hand tighten, do not use pliers.
3. Connect alligator clip of your probe to earth ground - electrical connection must be good.
4. Verify that measurement source is positive polarity dc. Never use this probe for negative polarity dc or ac measurements.
4. With your free hand in your back pocket, touch probe to high voltage point and note reading at meter. Avoid contacting any exposed metal parts.